

WHAT IS CLAIMED IS:

1. A recording medium having a data structure for managing reproduction of at least video data, comprising:

a navigation area storing at least one navigation file, the navigation file including navigation commands for managing reproduction of at least video data forming a main reproduction path and a side reproduction path, the side reproduction path being a side path to the main reproduction path.

2. The recording medium of claim 1, wherein a portion of the navigation commands selectively determine whether to play a playlist forming at least a portion of the side reproduction path.

3. The recording medium of claim 2, wherein the portion of the navigation commands selectively determine whether to play the playlist forming at least a portion of the side reproduction path during reproduction of the main reproduction path.

4. The recording medium of claim 2, wherein the portion of the navigation commands selectively determine whether to play the playlist forming at least a portion of the side reproduction path based on user input.

5. The recording medium of claim 4, wherein the portion of the navigation commands selectively determine whether to play the playlist forming at least a

portion of the side reproduction path based on user input received during reproduction of the main reproduction path.

6. The recording medium of claim 1, wherein a portion of the navigation commands selectively branch reproduction to the side reproduction path.

7. The recording medium of claim 6, wherein the portion of the navigation commands selectively branch reproduction to the side reproduction path during reproduction of the main reproduction path.

8. The recording medium of claim 6, wherein the portion of the navigation commands selectively branch reproduction to the side reproduction path based on user input.

9. The recording medium of claim 8, wherein the portion of the navigation commands selectively branch reproduction to the side reproduction path based on user input during reproduction of the main reproduction path.

10. The recording medium of claim 1, wherein the navigation commands are divided into navigation command groups.

11. The recording medium of claim 10, wherein at least one of the navigation command groups selectively branches reproduction to the side reproduction

path.

12. The recording medium of claim 11, wherein the at least one of the navigation command groups selectively branches reproduction to a playlist representing at least a portion of the side reproduction path.

13. The recording medium of claim 11, wherein the at least one of the navigation command groups selectively branches reproduction to another navigation command group, the another navigation command group commands reproduction of at least a portion of the side reproduction path.

14. The recording medium of claim 13, wherein the another navigation command group commands playback of a playlist representing at least a portion of the side reproduction path.

15. The recording medium of claim 14, wherein the another navigation command group branches reproduction back to the main reproduction path after reproduction of the side reproduction path.

16. The recording medium of claim 13, wherein the another navigation command group branches reproduction back to the main reproduction path after reproduction of the side reproduction path.

17. The recording medium of claim 11, wherein the at least one of the navigation command groups selectively branches reproduction to the side reproduction path during reproduction of the main reproduction path.

18. The recording medium of claim 11, wherein the at least one of the navigation command groups selectively branches reproduction to the side reproduction path based on user input.

19. The recording medium of claim 18, wherein the at least one of the navigation command groups selectively branches reproduction to the side reproduction path based on user input during reproduction of the main reproduction path.

20. The recording medium of claim 10, wherein the navigation file further includes a length indicator indicating a length of the navigation file.

21. The recording medium of claim 10, wherein the navigation file further includes an attribute indicator providing an indication of at least one attribute of the navigation file.

22. The recording medium of claim 10, wherein the navigation file further includes a number of navigation command groups indicator indicating a number of the navigation command groups in the navigation file.

23. The recording medium of claim 10, wherein the navigation file further includes a length indicator indicating a length of the navigation file, an attribute indicator providing an indication of at least one attribute of the navigation file, and a number of navigation command groups indicator indicating a number of the navigation command groups in the navigation file.

24. The recording medium of claim 1, wherein a portion of the navigation commands command resuming reproduction of the main reproduction path after reproduction of the side reproduction path.

25. A recording medium having a data structure for managing reproduction of at least video data, comprising:

- a data area storing at least video data forming a main reproduction path and storing at least video data forming a side reproduction path, the side reproduction path being a side path to the main reproduction path; and

- a navigation area storing at least one navigation file, the navigation file including navigation commands for managing reproduction of the main and side reproduction paths.

26. The recording medium of claim 25, further comprising:

- a playlist area storing at least one playlist associated with the main reproduction path and at least one playlist associated with the side

reproduction path; and wherein

the navigation commands selectively control playback of the at least one playlist associated with main reproduction path and the at least one playlist associated with the side reproduction path.

27. The recording medium of claim 26, each playlist includes at least one playitem identifying at least a portion of a clip file of at least one of video and audio data recorded on the recording medium.

28. The recording medium of claim 26, wherein the navigation commands are divided into navigation command groups.

29. The recording medium of claim 28, wherein the navigation file further includes a length indicator indicating a length of the navigation file, an attribute indicator providing an indication of at least one attribute of the navigation file, and a number of navigation command groups indicator indicating a number of the navigation command groups in the navigation file.

30. A method of recording a data structure for managing reproduction of data on a recording medium, comprising:

recording at least one navigation file on the recording medium, the navigation file including navigation commands for managing reproduction of

at least video data forming a main reproduction path and a side reproduction path, the side reproduction path being a side path to the main reproduction path.

31. A method of reproducing a data structure for managing reproduction of at least data recorded on a recording medium, comprising:

reproducing at least one navigation file recorded on the recording medium, the navigation file including navigation commands for managing reproduction of at least video data forming a main reproduction path and a side reproduction path, the side reproduction path being a side path to the main reproduction path.

32. An apparatus for recording a data structure for managing reproduction of at least data on a recording medium, comprising:

a driver for driving an optical recording device to record data on the recording medium;

a controller for controlling the driver to record at least one navigation file on recording medium, the navigation file including navigation commands for managing reproduction of at least video data forming a main reproduction path and a side reproduction path, the side reproduction path being a side path to the main reproduction path.

33. An apparatus for reproducing a data structure for managing reproduction

of at least multiple reproduction path video data recorded on a recording medium, comprising:

a driver for driving an optical reproducing device to reproduce data recorded on the recording medium;

a controller for controlling the driver to reproduce at least one navigation file recorded on the recording medium, the navigation file including navigation commands for managing reproduction of at least video data forming a main reproduction path and a side reproduction path, the side reproduction path being a side path to the main reproduction path.